

1.126,260



# PATENT SPECIFICATION

DRAWINGS ATTACHED

Inventor: JOSEPH MEDLEY

Date of filing Complete Specification: 19 June, 1967.

Application Date: 5 Nov., 1966.

Complete Specification Published: 5 Sept., 1968.

© Crown Copyright 1968.

1.126,260

No. 49689/66.

Index at acceptance:—B8 D(1A1, 1A4B2, 1B1, 1F1, 3B, 7M)

Int. Cl.:—B 65 d 39/16

## COMPLETE SPECIFICATION

### Improvements in or relating to Containers

We, METALITHO LIMITED, of Llantarnam Road, Cwmbran, Monmouthshire, a British Company, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed to be particularly described in and by the following statement:—

This invention relates to containers and lids therefor.

One of the problems which have faced manufacturers of containers and more especially containers for materials which evaporate comparatively rapidly, for example such materials as polishes for automobile bodies, is to provide a lid which can be opened easily by means of a coin or similar implement while the lid must be able effectively to close the mouth of the container.

The invention consists in a container comprising a solid drawn body and a lid, the body having a side wall which is provided with a bead at its upper rim, a cylindrical wall portion below the bead, and an inwardly extending annular projection below the cylindrical wall portion and the lid having a bead at its rim, and a cylindrical wall portion below the said bead and designed to make close sealing engagement with the cylindrical wall portion of the body, the arrangement being such that when the lid is pressed into the mouth of the body a part adjacent the lower edge of the cylindrical wall portion of the lid engages the annular projection on the side wall of the body, and in this position the beads on the body and the lid are vertically spaced apart and define a continuous peripheral gap therebetween to allow a coin to be inserted at any point around the periphery.

Preferably the projection on the side wall of the body is formed by a continuous internal bead which is adapted to provide a seat for and seal with the part of the lid which engages the said projection.

Conveniently the lower edge of the cylindrical wall portion of the lid is provided with an inwardly and downwardly inclined surface

which is adapted to bear on the said projection on the body, and the beads on the body and the lid directly overlap one another and are of substantially the same diameter.

The invention may be performed in various ways and one embodiment is illustrated by way of example in the accompanying drawings of a container for automobile wax polishes. In the drawings,

Figure 1 is an exploded view,

Figure 2 is a somewhat diagrammatic fragmentary elevation on an enlarged scale of the container of Figure 1 and

Figure 3 is a fragmentary view showing a container stacked on another.

Referring to the accompanying drawings a container 1 is formed with a one-piece solid drawn cylindrical metal body 2 having an external curl or bead 3 at the upper edge of its side wall 4. A continuous annular internal rib 5 is formed in the side wall 4, this rib being located at a position determined in association with a downwardly extending annular channel 6 formed in the container lid. This channel 6 is located at the edge 8 of the lid and extends below both the said edge and the central portion 9 of the lid which is thus of the kind known as a flush top lid. The outer side wall 10 of the channel nearer the lid edge is of cylindrical form and bears, in normal manner, on the inner surface of the cylindrical side wall 17 of the body, above said rib 5, when the lid is in its closed position and at its lower end joins the other parallel wall 11 of the channel via a portion 12 which provides an inclined surface 13 which is adapted to seat on and form a seal with the upper surface 15 of the internal rib 5 on the body. There are thus provided cooperating parallel cylindrical surfaces 10 and 17 and additional surfaces 13, 15, on the lid and body which interengage to close and seal the container. The position of the rib 5 is such that the edge 8 of the lid, which also has an external bead 14, is, in the closed condition of the lid, vertically spaced above the bead at the upper edge of the side

50

55

60

65

70

75

80

85

90

5 wall of the body so that a coin, for example a penny, can be inserted between the said edges and turned to prise the lid open. The gap between the beads extends around the whole periphery of the container. Figure 2 shows a gap between the surfaces 10 and 17, 13 and 15, but this is for clarity of illustration only.

10 The bottom 18 of the container body 2 is centrally recessed so as to facilitate the stacking of a number of containers as illustrated in Figure 3. The periphery of the container bottom 18 enters partly into the parallel vertical-sided channel 6 in the lid of the container below.

15 WHAT WE CLAIM IS:—

1. A container comprising a solid drawn body and a lid, the body having a side wall which is provided with a bead at its upper rim, a cylindrical wall portion below the bead, and an inwardly extending annular projection below the cylindrical wall portion and the lid having a bead at its rim, and a cylindrical wall portion below the said bead and designed to make close sealing engagement with the cylindrical wall portion of the body, the arrangement being such that when the lid is pressed into the mouth of the body a part adjacent the lower edge of the cylindrical wall portion of the lid engages the annular projection

on the side wall of the body, and in this position the beads on the body and the lid are vertically spaced apart and define a continuous peripheral gap therebetween to allow a coin to be inserted at any point around the periphery. 35

2. A container as claimed in claim 1 wherein the projection on the side wall of the body is formed by a continuous internal bead which is adapted to provide a seat for and seal with the part of the lid which engages the said projection. 40

3. A container according to claim 1 or claim 2 wherein the lower edge of the cylindrical wall portion of the lid is provided with an inwardly and downwardly inclined surface which is adapted to bear on the said projection on the body. 45

4. A container as claimed in any of claims 1 to 3, in which the beads on the body and the lid directly overlap one another and are of substantially the same diameter. 50

5. A container constructed and arranged to operate substantially as described with reference to and illustrated by the accompanying drawings. 55

J. V. WYNNE-JONES,  
Chartered Patent Agent,  
33, St. Mary Street, Cardiff,  
Agent for the Applicants.

1126260

COMPLETE SPECIFICATION

1 SHEET

This drawing is a reproduction of the Original on a reduced scale

